PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 AND SERVICE ROAD IN ANNE ARUNDEL COUNTY.
MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

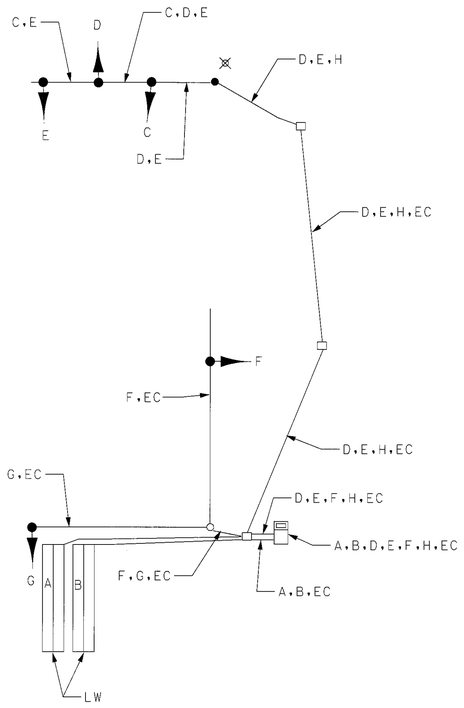
INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS BEING USED.
THE CONTROLLER WILL NOW OPERATE AS A SIX-PHASE FULL-TRAFFIC-ACTUATED CONTROLLER WITH EXCLUSIVE LEFT TURN PHASES FOR NORTHBOUND AND SOUTHBOUND MD 2 AND AN ALTERNATE PEDESTRIAN PHASE FOR THE NORTH LEG OF MD 2.

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	13	14
	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)	(R)(Y)
PHASE 1 & 5	⊲G–	⊲G–	R	R	⊲G–	⊲G–	R	R	R	R	R	R	R	R	DW	DW
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6. 2 & 5 OR 2 & 6															
PHASE 1 & 6	⊲G–	⊲G–	G	G	⊲R–	⊲R–	R	R	R	R	R	R	R	R	DW	DW
1 & 6 CHANGE	⊲Y–	⊲Y–	G	G	⊲R–	⊲R–	R	R	R	R	R	R	R	R	DW	DW
PHASE 2 & 5	⊲R–	⊲R–	R	R	⊲G–	⊲G–	G	G	R	R	R	R	R	R	DW	DW
2 & 5 CHANGE	⊲R–	⊲R–	R	R	⊲Y–	⊲Y–	G	G	R	R	R	R	R	R	DW	DW
PHASE 2 & 6	⊲R–	⊲R–	G	G	⊲R–	⊲R–	G	G	R	R	R	R	R	R	DW	DW
2 & 6 CHANGE	⊲R–	⊲R–	Y	Y	⊲R–	⊲R–	Y	Y	R	R	R	R	R	R	DW	DW
PHASE 4 & 8	⊲R–	⊲R–	R	R	⊲R–	⊲R–	R	R	G	G	G	G	G	G	DW	DW
4 & 8 CHANGE	⊲R–	⊲R–	R	R	⊲R–	⊲R–	R	R	Y	Y	Y	Y	Y	Y	DW	DW
PHASE 4 & 8 ALT.	⊲R–	⊲R–	R	R	⊲R–	⊲R–	R	R	G	G	G	G	G	G	WK	WK
PED CLEAR	⊲R–	⊲R–	R	R	⊲R–	⊲R–	R	R	G	G	G	G	G	G	FL/DW	FL/DW
4 & 8 ALT.CHANGE	⊲R–	⊲R–	R	R	⊲R–	⊲R–	R	R	Y	Y	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A–B	2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
C	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D–G	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
H	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
EC	EXISTING CABLE
LW	LOOP WIRE (NO. 14 A.W.G.)
⊗	GROUND ROD

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

MR. ROBERT KIEL
ASSISTANT DISTRICT ENGINEER - TRAFFIC
(410) 778-3061

MR. TERRY WRIGHT
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
(410) 778-3061

MR. BARRY CLOTHIER
ASSISTANT DISTRICT ENGINEER - UTILITIES
(410) 778-3061

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.
CHIEF, TRAFFIC OPERATIONS
(410) 787-7630

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF,
TRAFFIC OPERATIONS
(410) 787-7631

MS. DARLENE EIDE
SUPPLY OFFICE
SIGNAL SHOP WAREHOUSE
(410) 787-7668

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	1 CY	TEST PIT EXCAVATION
5005	25 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8011	14 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8022	1 EA	FURNISH AND INSTALL 50 FT. MAST ARM AND POLE
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8051	30 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8057	3 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8060	170 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8062	80 LF	FURNISH AND INSTALL 1 IN. GALVANIZED CONDUIT DETECTOR SLEEVE
8080	1 EA	FURNISH AND INSTALL GROUND ROD $^{3}/_{4}$ IN. DIAMETER X 10 FT. LENGTH
8081	25 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
8084	35 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR NO. 14 AWG
8085	700 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR NO. 14 AWG
8087	1000 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN $^{1}/_{4}$ IN. FLEXIBLE TUBING (NO. 14 AWG)
8088	230 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
---	1 EA	FURNISH AND INSTALL R3-5(L) SIGN (30" X 36") MAST ARM MOUNT
---	1 EA	FURNISH AND INSTALL SHIELD ASSEMBLY M3-3 SIGN (12" X 24") M1-5 SIGN (24" X 24"), M6-1 SIGN (24" X 30") MAST ARM POLE MOUNT
---	1 EA	FURNISH AND INSTALL SHIELD ASSEMBLY M3-1 SIGN (12" X 24") M1-5 SIGN (24" X 24"), M6-1 SIGN (24" X 30") MAST ARM POLE MOUNT
---	1 EA	FURNISH AND INSTALL R3-4 SIGN (24" X 24") MAST ARM MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 2 (SOLOMONS ISLAND RD.) AND SERVICE ROAD

DRAWN BY: M.HOWELL	F.A.P. NO.		TS NO. 3891 A GI	SHEET NO. 2 OF 2
CHECKED BY: T.ZAYDEL	S.H.A. NO.			
SCALE: 1" = 20'	COUNTY: ANNE ARUNDEL		T.I.M.S. NO. F527	
DATE: 11-22-02	LOG MILE: 020020117.35			

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